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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) Method A method of securing access to a piece of equipment (EQP), this method comprising at least: one attribution operation consisting of supplying a reference datum (CRYPT SGN02) to an authentication medium (CRD); an acquisition operation consisting of obtaining, for every access request formulated by a party requesting access to the equipment, a biometric signature (SGN) of this said party requesting access; and a verification step consisting of verifying, by means of the reference datum (CRYPT SGN02), the authenticity of the biometric signature (SGN) obtained from the party requesting access, characterised in that it comprises further including a prior encryption step, during which an encrypted version (CRYPT-SGN02) of at least one authentic biometric signature (SGN02) belonging to at least one person authorised to access the piece of equipment is created, in that wherein the verification step comprises a decryption operation implemented in the authentication medium (CRD) and consisting of which includes decrypting, by means of a secret key (K, K0), the encrypted version (CRYPT-SGN02) of an authentic biometric signature (SGN02) supplied to this said authentication medium (CRD) as a reference datum during the access request, and in that wherein the verification step comprises a comparing operation implemented by secretly comparing the biometric signature (SGN)

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obtained from the party requesting access during the access request with the authentic biometric signature (SGN02) that results from the decryption step.

- 2. (Currently Amended) Authentication An authentication medium for implementing the method according to claim 1, characterised in that it is in the form of comprising an electronic card comprising having at least one decryption module (DECRYPT) using a secret key (K, K0).
- 3. (Currently Amended) Authentication An authentication medium according to claim 2, characterised in that it also comprises further comprising a comparison module (COMPAR).
- 4. (Currently Amended) Authentication An authentication medium according to claim 2 or 3, characterised in that it also comprises further comprising an encryption module (ENCRYPT).
- 5. (Currently Amended) Device A device for securing access to a piece of equipment, this device comprising: an authentication medium (CRD) which is supplied with a reference datum (CRYPT_SGN02); a sensor (CAPT) obtaining, during every access request formulated by a party requesting access to the equipment, a biometric signature (SGN) of this said party requesting access; and centrol means (CTRL) a controller included in the authentication medium (CRD) and selectively authorising the party requesting access to access the piece of equipment (EQP) in accordance with the result of a verification of the authenticity of the

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biometric signature of the party requesting access by means of the reference datum (CRYPT_SGN02), characterised in that wherein the control means (CTRL) comprise controller comprises a decryption module (DECRYPT) and a comparison module (COMPAR), in that wherein the reference datum (CRYPT_SGN02) supplied to the authentication medium (CRD) consists of comprises an encrypted version of an authentic biometric signature (SGN02) allegedly attributed to the party requesting access, in that wherein the decryption module (DECRYPT) uses a secret key (K, K0) by means of which it secretly reconstructs, upon each access request, the authentic biometric signature (SGN02) from its encrypted version (CRYPT_SGN02), and in that wherein the comparison module (COMPAR) secretly compares the biometric signature (SGN) obtained from the party requesting access with the reconstructed authentic biometric signature (SGN02), and supplies a comparison result (RESULT) that constitutes the result of the verification.

- 6. (Currently Amended) Security A security device according to claim 5, characterised in that wherein the authentication medium (CRD) is a card, removable or non-removable, equipped with a memory that cannot be read from outside, in which the secret key (K, KO) is stored.
- 7. (Currently Amended) Security A security device according to either one of the claims 5 or 6, characterised in that it comprises claim 5, further comprising at least one computer (ORDI) that makes up at least a part of the equipment (EQP) to which the access is secured.

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- 8. (Currently Amended) Security A security device according to claim 7, eharacterised in that wherein the computer (ORDI) contains in its memory a plurality of personal identification codes (PIN1, PIN2, PIN3) attributed to a corresponding plurality of persons authorised to access the equipment and associated with a corresponding plurality of encrypted authentic biometric signatures (CRYPT_SGN01, CRYPT_SGN02, CRYPT_SGN03) for these authorised persons, and in that wherein the computer (ORDI) delivers to the identification medium (CRD), when receiving an access request, the encrypted authentic biometric signature (CRYPT_SGN02) that corresponds to the identification code (PIN2) supplied by the party requesting access, which means such that a single authentication medium (CRD) provides several persons with secure access to the computer (ORDI).
- 9. (Currently Amended) Security A security device according to any one of the claims from 5 to 8, characterised in that it comprises claim 5, further comprising an encryption module 5 to 8, characterised in that is comprises an encryption module (ENCRYPT, ENCRYPT_K1) that is able to delivering delivers an encrypted version of an authentic biometric signature supplied in plain form by the sensor (CAPT) in response to an encryption command.
- 10. (Currently Amended) Security A security device according to claim 9, characterised in that wherein the secret key (K0) is a private key with a matching public key (K1), and in that wherein the encryption module (ENCRYPT_K1) is included in the computer (ORDI) and uses the public key (K1).

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11. (New) An authentication medium according to claim 3 further comprising an encryption module.

12. (New) A security device according to claim 6, further comprising at

least one computer that makes up at least a part of the equipment to which the

access is secured.

13. (New) A security device according to claim 6, further comprising an

encryption module that delivers an encrypted version of an authentic biometric

signature supplied in plain form by the sensor in response to an encryption

command.

14. (New) A security device according to claim 7, further comprising an

encryption module that delivers an encrypted version of an authentic biometric

signature supplied in plain form by the sensor in response to an encryption

command.

15. (New) A security device according to claim 8, further comprising an

encryption module that delivers an encrypted version of an authentic biometric

signature supplied in plain form by the sensor in response to an encryption

command.